

REMARKS

INTRODUCTION:

In accordance with the foregoing, the specification and claim 43 have been amended. Claims 1-44 are pending and under consideration. Claims 10-19, 25, 39 and 44 are objected to.

CHANGES TO THE SPECIFICATION/ABSTRACT:

The specification has been reviewed in response to this Office Action. Changes have been made to the specification only to place it in preferred and better U.S. form for issuance and to resolve the Examiner's objections raised in the Office Action. No new matter has been added.

REJECTIONS UNDER 35 U.S.C. §102:

In the Office Action, at page 3, claims 42 and 43 were rejected under 35 U.S.C. §102 in view of Mitsutake. This rejection is traversed and reconsideration is requested.

Independent claim 42 recites that the color recycling system separates the light of the predetermined wavelength band into a first color light and a second color light, and that a fourth color light (a mixture of the first and third color lights) and a fifth color light (a mixture of the second and third color lights) progress in different optical paths. Thus, the third color light is common to the fourth and fifth color lights, whereas the first and second color lights are the separated color lights. For example, present FIGS. 2 and 3B illustrate that the separated colors are G and B, and R is the color common to the mixed colors M and Y.

In contrast, Mitsutake discloses that parallel white light $P_R + P_G + P_B$ is separated by dichroic mirror 81 into P_R and $P_G + P_B$. The P_R component is converted into R^* by polarizing plate 77_R , and the P_G component is converted into G^* by polarizing plate 77_G . The R^* and G^* components are mixed. Thus, G is the color common to the $R^* + G^*$ mix and the $P_G + P_B$ mix. However, this is not the component separated by the dichroic mirror 81. Instead, the separated component is R^* . Mitsutake, FIG. 12. Accordingly, the reference does not disclose the colors as claimed, and withdrawal of the rejection is requested.

In the Office Action, at page 4, claims 1-3, 24, 26-29, 31-35 and 40-41 were rejected under 35 U.S.C. §102 in view of Berman et al. This rejection is traversed and reconsideration is

requested.

The reference also does not disclose the above-discussed features, which are similarly recited in independent claim 1. Instead of fourth and fifth colors which are each mixtures, only a single mixture is disclosed. Specifically, FIG. 29 of the reference (relied upon by the Examiner) discloses that B and G colors are mixed. However, this is the only disclosed mixture.

Accordingly, withdrawal of the rejection is requested.

REJECTION UNDER 35 U.S.C. §103:

In the Office Action, at page 7, claims 1, 2, 4-9, 20-23, 26-28, 30-38, and 40-41 were rejected under 35 U.S.C. §103 in view of Lee and Berman. The reasons for the rejection are set forth in the Office Action and therefore not repeated. The rejection is traversed and reconsideration is requested.

The above comments with respect to Berman also apply here, and Lee does not overcome the above deficiencies in Berman. The Examiner relies upon color selecting plate 60 of Lee as corresponding to the claimed color recycling system. This element converts R, Y and M beams into R_P , R_P+G_S , and R_P+B_S respectively. Lee, column 6, lines 13-31. There is no disclosure of different optical paths for the converted colors. Accordingly, withdrawal of the rejection is requested.

STATUS OF CLAIM 44:

The Examiner indicates that claim 44 is objected to as being dependent on a rejected base claim. However, it is noted that claim 44 is independent, and therefore is allowable in its present form.

CONCLUSION:

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

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